

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072723\
 Data File : VU054890.D
 Acq On : 27 Jul 2023 10:15
 Operator : MD/SY
 Sample : VSTDCCC010
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2023
 Supervised By : Mahesh Dadoda 07/31/2023

Quant Time: Jul 28 05:34:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U072523DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Jul 26 09:45:35 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Fluorobenzene	6.110	96	28384	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.630	95	9629	1.119	ug/l	0.00
Spiked Amount 1.000			Recovery	=	112.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	10205	1.049	ug/l	0.00
Spiked Amount 1.000			Recovery	=	105.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.383	85	48615	8.995	ug/l	98
3) Chloromethane	1.518	50	55946	9.214	ug/l	95
4) Vinyl Chloride	1.602	62	75428	9.302	ug/l	96
5) Bromomethane	1.856	94	59331	9.223	ug/l	100
6) Chloroethane	1.930	64	71339	8.512	ug/l	99
7) Trichlorofluoromethane	2.136	101	155571	8.167	ug/l	96
8) 1,1,2-Trichloro-1,2,2-...	2.576	101	56895	9.216	ug/l	97
9) 1,1-Dichloroethene	2.576	96	47083	9.608	ug/l	97
10) Iodomethane	2.718	142	73281	9.579	ug/l	99
11) Allyl Chloride	2.920	41	56214	9.598	ug/l	95
12) Acrylonitrile	3.322	53	24936	20.276	ug/l	# 90
13) Acetone	2.637	43	70087	54.525	ug/l	95
14) Carbon Disulfide	2.788	76	75850	8.934	ug/l	100
15) Methylene Chloride	3.039	84	60071	9.604	ug/l	96
16) trans-1,2-Dichloroethene	3.348	96	50938	9.548	ug/l	91
17) 1,1-Dichloroethane	3.862	63	112976	9.469	ug/l	98
18) 2-Butanone	4.708	43	92621	57.119	ug/l	95
19) Cyclohexane	5.386	56	72185m	10.752	ug/l	
20) Methylcyclohexane	6.759	83	89086	9.923	ug/l	97
21) 2,2-Dichloropropane	4.656	77	105515	9.540	ug/l	99
22) cis-1,2-Dichloroethene	4.663	96	69326	9.778	ug/l	97
23) Diethyl Ether	2.374	59	63918	8.841	ug/l	97
24) tert-Butyl Alcohol	3.206	59	58772m	87.382	ug/l	
25) Methyl tert-Butyl Ether	3.361	73	149238	9.842	ug/l	99
26) Bromochloromethane	4.972	128	27769	9.550	ug/l	98
27) Chloroform	5.084	83	127685	9.965	ug/l	96
28) 1,1,1-Trichloroethane	5.312	97	108820	9.833	ug/l	99
29) 1,1-Dichloropropene	5.525	75	77677	9.515	ug/l	99
30) Carbon Tetrachloride	5.518	117	91689	9.925	ug/l	96
31) Isopropyl Ether	3.988	45	169620	9.631	ug/l	99
32) Ethyl-t-butyl ether	4.496	59	172079	9.489	ug/l	97
33) Tert-Amyl methyl ether	5.936	73	166529	9.713	ug/l	99
34) Propionitrile	4.782	54	23772	53.175	ug/l	# 87
35) Benzene	5.769	78	251891	9.853	ug/l	99
36) 1,2-Dichloroethane	5.788	62	71166	9.785	ug/l	98
37) Trichloroethene	6.541	130	67794	9.860	ug/l	98
38) 1,2-Dichloropropane	6.788	63	70136	9.705	ug/l	100
39) Methacrylonitrile	4.975	41	17417	9.718	ug/l	95
40) Methyl acrylate	4.846	55	29293	10.279	ug/l	# 96
41) Tetrahydrofuran	5.062	42	19158	18.695	ug/l	97
42) 1-Chlorobutane	5.454	56	101417	9.488	ug/l	99
43) Dibromomethane	6.917	93	34357	10.121	ug/l	98
44) Bromodichloromethane	7.103	83	94986	10.044	ug/l	# 98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.788	43	206294	52.085	ug/l	98
46) t-1,4-Dichloro-2-butene	10.836	75	36654m	23.000	ug/l	
47) Methyl methacrylate	6.959	69	65059	20.964	ug/l	99
48) Ethyl methacrylate	8.332	69	66304	10.563	ug/l	99
49) Toluene	7.968	92	163021	10.010	ug/l	100
50) t-1,3-Dichloropropene	8.209	75	84624	10.078	ug/l	99
51) cis-1,3-Dichloropropene	7.605	75	102932	9.973	ug/l	99
52) 1,1,2-Trichloroethane	8.396	97	52664	9.786	ug/l	93
53) 1,3-Dichloropropane	8.573	76	87095	10.005	ug/l	98
54) 2-Hexanone	8.682	43	151574	53.856	ug/l	97
55) Dibromochloromethane	8.807	129	63678	10.328	ug/l	99
56) 1,2-Dibromoethane	8.920	107	47486	10.413	ug/l	99
58) Tetrachloroethene	8.550	164	57152	9.523	ug/l	95
59) Chlorobenzene	9.444	112	194229	9.828	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.531	131	70805	10.148	ug/l	97
61) Pentachloroethane	11.425	117	56059	10.284	ug/l	99
62) Hexachloroethane	12.473	117	59239	10.568	ug/l	97
63) Ethyl Benzene	9.566	91	336221	10.139	ug/l	100
64) m/p-Xylenes	9.692	106	253327	20.418	ug/l	98
65) o-Xylene	10.097	106	127115	9.975	ug/l	98
66) Styrene	10.110	104	211672	10.388	ug/l	99
67) Bromoform	10.290	173	35276	11.033	ug/l	98
69) Isopropylbenzene	10.479	105	347262	10.150	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.778	83	67138	10.080	ug/l	99
71) 1,2,3-Trichloropropane	10.827	75	42590m	8.977	ug/l	
72) Bromobenzene	10.778	156	78990	10.370	ug/l	99
73) n-propylbenzene	10.904	120	96757	10.567	ug/l	94
74) 2-Chlorotoluene	10.984	126	82126	10.361	ug/l	97
75) 1,3,5-Trimethylbenzene	11.084	105	290621	10.489	ug/l	99
76) 4-Chlorotoluene	11.093	126	89289	10.843	ug/l	96
77) tert-Butylbenzene	11.418	119	298330	10.354	ug/l	98
78) 1,2,4-Trimethylbenzene	11.463	105	297660	10.494	ug/l	100
79) sec-Butylbenzene	11.640	105	398153	10.630	ug/l	99
80) Nitrobenzene	13.203	77	9655	55.170	ug/l #	97
81) p-Isopropyltoluene	11.791	119	324634	10.982	ug/l	100
82) 1,3-Dichlorobenzene	11.743	146	164238	10.128	ug/l	99
83) 1,4-Dichlorobenzene	11.833	146	164235	10.160	ug/l	99
84) n-Butylbenzene	12.206	91	301810	11.367	ug/l	99
85) 1,2-Dichlorobenzene	12.209	146	156332	10.057	ug/l	99
86) 1,2-Dibromo-3-Chloropr...	12.991	75	9484	10.710	ug/l	97
87) 1,2,4-Trichlorobenzene	13.836	180	103268	10.416	ug/l	98
88) Hexachlorobutadiene	14.016	225	55466	10.489	ug/l	99
89) Naphthalene	14.084	128	166665	10.855	ug/l	100
90) 1,2,3-Trichlorobenzene	14.325	180	88258	10.033	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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